

Civil Engineering Water Notes

1. FIRE HYDRANTS SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED IN ACCORDANCE WITH CITY OF CHANDLER STANDARD DETAILS C-303 AND C-304. ALL FIRE HYDRANTS SHALL BE PAINTED ACCORDING TO FIRE DEPARTMENT STANDARDS AFTER INSTALLATION.
2. ALL WATER SERVICE LINE AND METER BOX INSTALLATIONS SHALL CONFORM TO CITY OF CHANDLER STANDARD DETAIL C-301.
3. METER BOXES AND LIDS SHALL BE SUPPLIED BY THE DEVELOPER AND INSTALLED FACING THE LOT. (SEE CITY OF CHANDLER STANDARD DETAIL C-301.)
NO PLASTIC METER BOXES.
4. CITY OF CHANDLER WILL FURNISH AND INSTALL ALL 2" AND SMALLER WATER METERS WITH PREVAILING COSTS TO BE PAID BY DEVELOPER.
5. ALL WATER METERS 3" AND LARGER SHALL BE INSTALLED BY THE CONTRACTOR AND BE INSTALLED WITH A REQUIRED 2" BY-PASS WATER METER. THE CITY OF CHANDLER WATER DIVISION SHALL BE NOTIFIED AT (480) 782-3700 24 HOURS PRIOR TO INSTALLATION. (SEE CITY OF CHANDLER STANDARD DETAIL C-316.)
6. ALL VALVES 6" – 24" SHALL BE GATE TYPE IN CONFORMANCE WITH MAG STANDARD SPECIFICATION 630.3, UNLESS OTHERWISE NOTED.
7. ALL VALVE BOXES SHALL CONFORM TO CITY OF CHANDLER STANDARD DETAILS C-318 AND C-307.
8. CITY WATER VALVES SHALL BE OPERATED BY CITY PERSONNEL ONLY.
9. BUTTERFLY VALVE OPERATOR SHALL BE OFFSET TO THE SIDE OF MAIN AWAY FROM MONUMENT LINE.
10. ALL TAPS SHALL USE A BRONZE SERVICE SADDLE. EIGHT (8) INCHES OR LESS SHALL BE SINGLE STRAP AND TEN (10) INCHES OR GREATER SHALL BE DOUBLE STRAP.
11. TAPS IN ACP SHALL BE MADE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE ACP MANUFACTURERS ASSOCIATION.
12. ALL FIRELINE PIPING, POTABLE WATER DISTRIBUTING PIPING LARGER THAN TWO (2) INCHES IN DIAMETER SHALL HAVE TRACER WIRES INSTALLED PER CITY OF CHANDLER SPECIFICATION NO. 11.

13. ALL PIPE IN THE GROUND SHALL HAVE AWG THWN #10 INSULATED COPPER TRACING WIRE ATTACHED TO THE BOTTOM OF THE PIPE AND INTERCONNECTED TO VALVES AT VALVE BOX SPACING INTERVALS. WARNING TAPE IS TO BE USED BURIED A MINIMUM 12" ABOVE THE PIPE. POLYETHYLENE ENCASEMENT SHALL CONFORM WITH THE APPLICABLE REQUIREMENTS OF AWWA C-600, C-105.
14. MECHANICAL JOINT OR RESTRAINED DUCTILE IRON PIPE SHALL BE USED FOR WATER LINE PROTECTION WHEN MAG STANDARD DETAIL 404 IS SPECIFIED ON THE PLANS.
15. VALVE BOX AND COVER GRADE LOCATED OUTSIDE OF A PAVED AREA SHALL BE SET ONE TO TWO (1 - 2) INCHES ABOVE SIDEWALK OR ADJACENT GRADE.
16. NO VALVE SHALL BE LOCATED BENEATH SIDEWALK OR SIDEWALK RAMP.
17. ALL 1" SERVICES SHALL BE INSTALLED WITH FORD ANGLE BALL METER VALVES, OR APPROVED EQUAL, OF A SIZE DEPENDENT ON WATER METER SIZE AS FOLLOWS:
 - A. 5/8" OR 3/4" METER-FORD BA23-342W.
 - B. 1" METER-FORD BA23-444W.
18. ALL FIRE HYDRANTS SHALL BE PROVIDED WITH **"OUT OF SERVICE"** SIGNS AT TIME OF INSTALLATION. THE SIGNS SHALL COMPLY WITH FIRE DEPARTMENT STANDARD DETAIL NO. FD123 AND SHALL REMAIN ON THE FIRE HYDRANTS UNTIL THE WATER LINES ARE TESTED, APPROVED AND PRESSURIZED. THE SIGNS SHALL BE REINSTALLED AT ANY TIME ANY FIRE HYDRANTS ARE TAKEN OUT OF SERVICE, REGARDLESS OF REASON OR THE AMOUNT OF TIME THE FIRE HYDRANTS ARE EXPECTED TO BE OUT OF SERVICE, AND DISPATCH SHALL BE NOTIFIED AT (480) 782-4130. ONLY OFFSITE PERSONNEL SHALL REMOVE A SIGN.